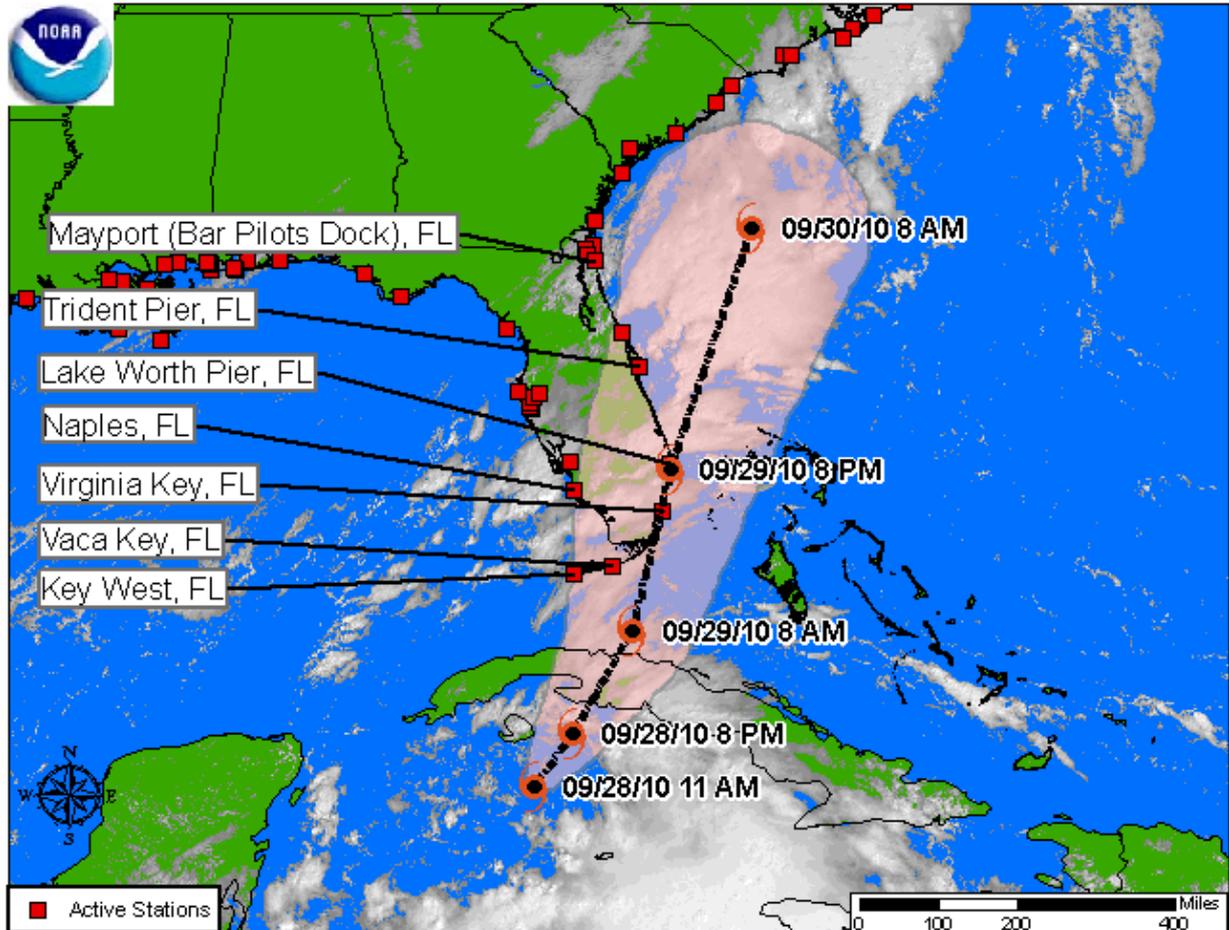


Tropical Depression SIXTEEN QuickLook
Posted: 12:00 EDT 09/28/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 09/28/2010 1200 EDT, water levels from Tampa Bay Florida going around the Keys and up the east coast of Florida are at or near predicted. Barometric pressure is rising across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Key West, FL Next predicted high tides are 1.41 ft (0.43 m) at 09/28/2010 14:12 EDT and 2.12 ft (0.65 m) at 09/29/2010 01:19 EDT.

Vaca Key, FL Next predicted high tides are 1.01 ft (0.31 m) at 09/28/2010 20:08 EDT and 1.35 ft (0.41 m) at 09/29/2010 05:40 EDT.

Virginia Key, FL Next predicted high tides are 2.42 ft (0.74 m) at 09/28/2010 13:03 EDT and 2.32 ft (0.71 m) at 09/29/2010 00:56 EDT.

Naples, FL Next predicted high tides are 2.42 ft (0.74 m) at 09/28/2010 16:59 EDT and 3.09 ft (0.94 m) at 09/29/2010 02:52 EDT.

Lake Worth Pier, FL Next predicted high tides are 2.99 ft (0.91 m) at 09/28/2010 23:50 EDT and 3.11 ft (0.95 m) at 09/29/2010 12:41 EDT.

Trident Pier, FL Next predicted high tides are 3.38 ft (1.03 m) at 09/28/2010 23:51 EDT and 4.25 ft (1.30 m) at 09/29/2010 12:27 EDT.

Mayport (Bar Pilots Dock), FL Next predicted high tides are 5.37 ft (1.64 m) at 09/28/2010 12:22 EDT and 4.67 ft (1.42 m) at 09/29/2010 00:41 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook Homepage](#).

Analyst: MPM

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

TROPICAL DEPRESSION SIXTEEN ADVISORY NUMBER 1

1100 AM EDT TUE SEP 28 2010

...TROPICAL DEPRESSION FORMS OVER THE NORTHWESTERN CARIBBEAN SEA...

AT 1100 AM EDT THE CENTER OF TROPICAL DEPRESSION SIXTEEN WAS LOCATED ABOUT 390 MI SSW OF MIAMI FLORIDA NEAR LATITUDE 20.6 NORTH...LONGITUDE 82.5 WEST.

WATCHES AND WARNINGS

A TROPICAL STORM WARNING HAS BEEN ISSUED FOR THE FLORIDA COAST FROM JUPITER INLET SOUTHWARD TO EAST CAPE SABLE...AND FOR ALL OF THE FLORIDA KEYS...INCLUDING FLORIDA BAY AND THE DRY TORTUGAS.

A TROPICAL STORM WATCH HAS BEEN ISSUED FOR THE WEST COAST OF FLORIDA FROM NORTH OF EAST CAPE SABLE TO CHOKOLOSKEE AND FOR THE EAST COAST OF FLORIDA FROM NORTH OF JUPITER INLET TO SEBASTIAN INLET.

A TROPICAL STORM WARNING IS IN EFFECT FOR...

- * JUPITER INLET SOUTHWARD TO EAST CAPE SABLE AND FLORIDA BAY**
- * THE FLORIDA KEYS**

A TROPICAL STORM WATCH IS IN EFFECT FOR...

- * NORTH OF JUPITER INLET TO SEBASTIAN INLET FLORIDA**
- * NORTH OF EAST CAPE SABLE TO CHOKOLOSKEE FLORIDA**

A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.

A TROPICAL STORM WATCH MEANS THAT TROPICAL STORM CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA...GENERALLY WITHIN 48 HOURS.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 AM EDT THE CENTER OF TROPICAL DEPRESSION SIXTEEN WAS LOCATED ABOUT 390 MI SSW OF MIAMI FLORIDA NEAR LATITUDE 20.6 NORTH...LONGITUDE 82.5 WEST. THE DEPRESSION IS MOVING TOWARD THE NORTH-NORTHEAST NEAR 10 MPH. A GENERALLY NORTH-NORTHEASTWARD MOTION WITH SOME INCREASE IN FORWARD SPEED IS EXPECTED OVER THE NEXT DAY OR TWO. ON THE FORECAST TRACK THE CENTER OF THE TROPICAL CYCLONE WILL CROSS CUBA TONIGHT AND BE NEAR SOUTHEASTERN FLORIDA BY WEDNESDAY AFTERNOON. HOWEVER...IN THIS CASE MOST OF THE STRONG WINDS AND HEAVY RAINS ARE OCCURRING A COUPLE HUNDRED MILES TO THE EAST AND SOUTHEAST OF THE CENTER.

MAXIMUM SUSTAINED WINDS ARE NEAR 35 MPH WITH HIGHER GUSTS. SOME STRENGTHENING IS FORECAST DURING THE NEXT DAY OR SO AND THE DEPRESSION IS EXPECTED TO BECOME A TROPICAL STORM LATER TODAY...BEFORE MERGING WITH A FRONTAL ZONE ON THURSDAY.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 1001 MB...29.56 INCHES.

HAZARDS AFFECTING LAND

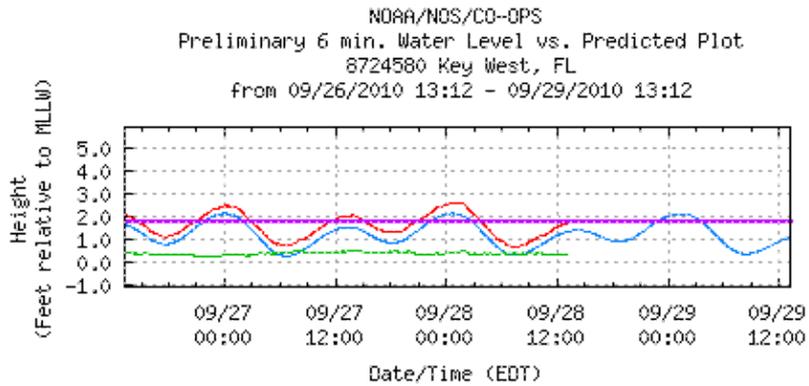
WIND...TROPICAL STORM CONDITIONS WILL BE AFFECTING THE WARNING AREAS IN THE CARIBBEAN TODAY AND SPREAD INTO THE BAHAMAS AND PORTIONS OF SOUTH FLORIDA ON WEDNESDAY.

FORECASTER PASCH

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

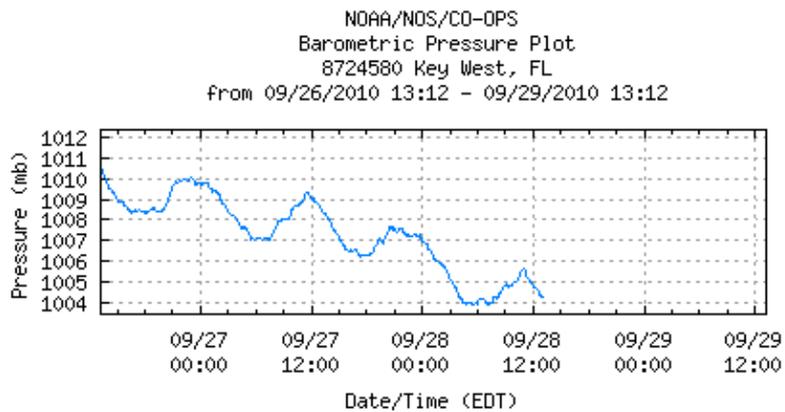
Jump to: [Key West - Water Level](#), [Key West - Barometric](#), [Key West - Air/Water Temp](#), [Vaca Key - Water Level](#), [Vaca Key - Winds](#), [Vaca Key - Barometric](#), [Vaca Key - Air/Water Temp](#), [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Air/Water Temp](#), [Naples - Water Level](#), [Naples - Winds](#), [Naples - Barometric](#), [Naples - Air/Water Temp](#), [Lake Worth Pier - Water Level](#), [Lake Worth Pier - Winds](#), [Lake Worth Pier - Barometric](#), [Lake Worth Pier - Air/Water Temp](#), [Trident Pier - Water Level](#), [Trident Pier - Winds](#), [Trident Pier - Barometric](#), [Trident Pier - Air/Water Temp](#), [Mayport \(Bar Pilots Dock\) - Water Level](#),

Key West, FL - [Return to List](#)



Last Observed Sample: 09/28/2010 13:00 (EDT)
Relative to **MLLW**: **Observed: 1.69 ft. Predicted: 1.33 ft. Residual: 0.36 ft.**
Historical Maximum Water Level: Oct 24 2005, 3.14 ft. above **MHHW**

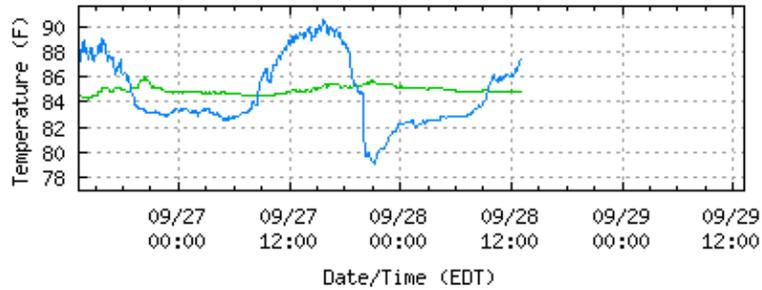
Key West, FL - [Return to List](#)



Last Observed Sample: 09/28/2010 13:00 (EDT)
Barometric Pressure: 1004.2 mb

Key West, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Air/Water Temperature Plot
 8724580 Key West, FL
 from 09/26/2010 13:12 - 09/29/2010 13:12



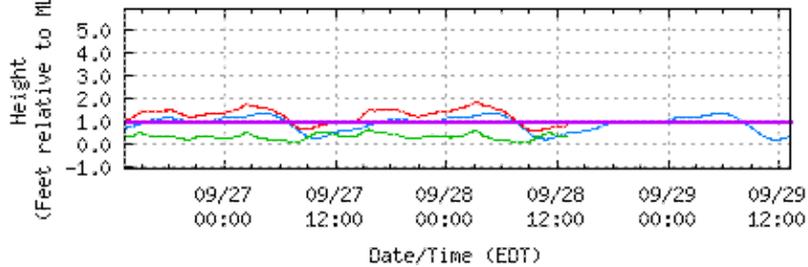
water temp. ——— air temp ———

Last Observed Sample: 09/28/2010 13:00 (EDT)

Water Temperature: 84.9° F Air Temperature: 87.4° F

Vaca Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8723970 Vaca Key, FL
 from 09/26/2010 13:12 - 09/29/2010 13:12



Predicted WL ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

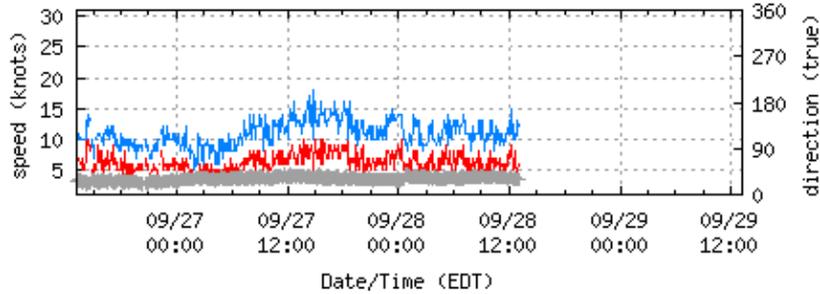
Last Observed Sample: 09/28/2010 13:00 (EDT)

Relative to **MLLW**: Observed: 0.81 ft. Predicted: 0.48 ft. Residual: 0.33 ft.

Historical Maximum Water Level: Oct 7 1974, 1.42 ft. above **MHHW**

Vaca Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
8723970 Vaca Key, FL
from 09/26/2010 13:12 - 09/29/2010 13:12



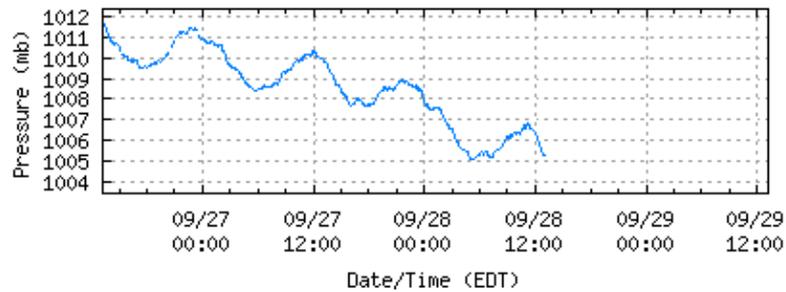
speed — gusts — direction +

Last Observed Sample: 09/28/2010 13:00 (EDT)

Wind Speed: 6 knots Gusts: 12 knots Direction: 029° T

Vaca Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8723970 Vaca Key, FL
from 09/26/2010 13:12 - 09/29/2010 13:12



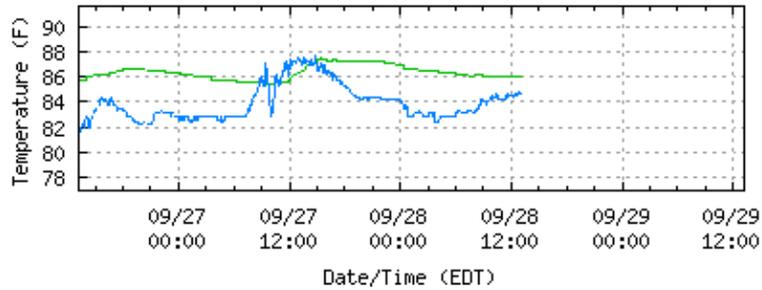
barometric pressure —

Last Observed Sample: 09/28/2010 13:00 (EDT)

Barometric Pressure: 1005.3 mb

Vaca Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Air/Water Temperature Plot
 8723970 Vaca Key, FL
 from 09/26/2010 13:12 - 09/29/2010 13:12



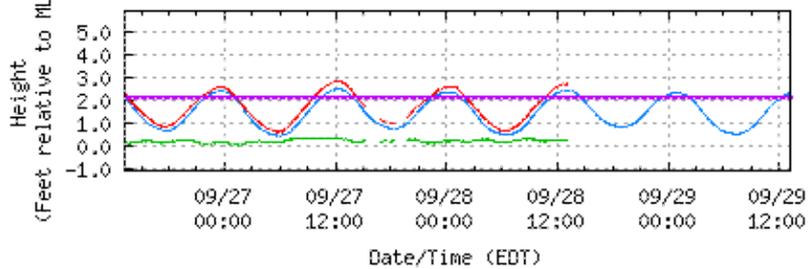
water temp. — air temp —

Last Observed Sample: 09/28/2010 13:00 (EDT)

Water Temperature: 86.0° F Air Temperature: 84.7° F

Virginia Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
 Preliminary 6 min. Water Level vs. Predicted Plot
 8723214 Virginia Key, FL
 from 09/26/2010 13:12 - 09/29/2010 13:12



Predicted WL — (Obs-Pred) —
 Observed WL — MHHW —

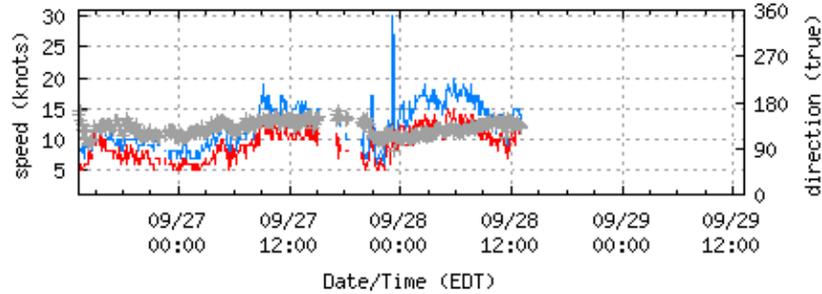
Last Observed Sample: 09/28/2010 13:06 (EDT)

Relative to **MLLW**: Observed: 2.71 ft. Predicted: 2.42 ft. Residual: 0.29 ft.

Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above **MHHW**

Virginia Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Wind Speed/Gusts/Dir
8723214 Virginia Key, FL
from 09/26/2010 13:12 - 09/29/2010 13:12



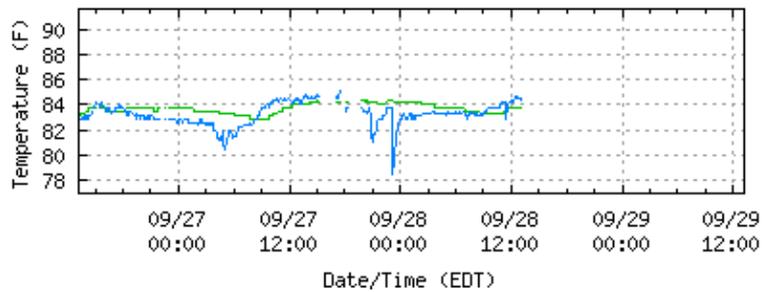
speed — gusts — direction +

Last Observed Sample: 09/28/2010 13:06 (EDT)

Wind Speed: 11 knots Gusts: 14 knots Direction: 130° T

Virginia Key, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8723214 Virginia Key, FL
from 09/26/2010 13:12 - 09/29/2010 13:12

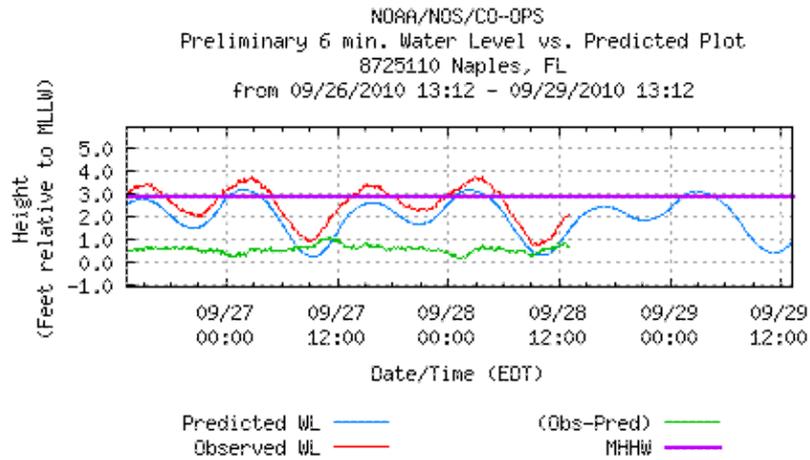


water temp. — air temp. —

Last Observed Sample: 09/28/2010 13:06 (EDT)

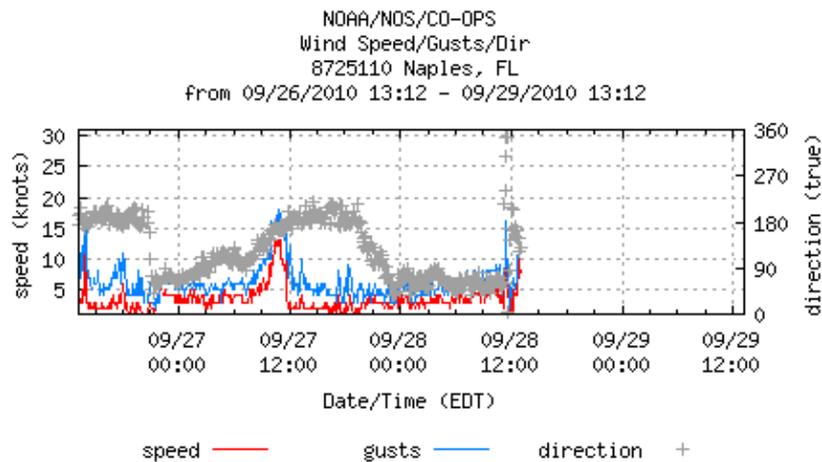
Water Temperature: 83.8° F Air Temperature: 84.4° F

Naples, FL - [Return to List](#)



Last Observed Sample: 09/28/2010 13:00 (EDT)
 Relative to **MLLW**: **Observed: 2.09 ft. Predicted: 1.38 ft. Residual: 0.71 ft.**
 Historical Maximum Water Level: Dec 21 1972, 3.11 ft. above **MHHW**

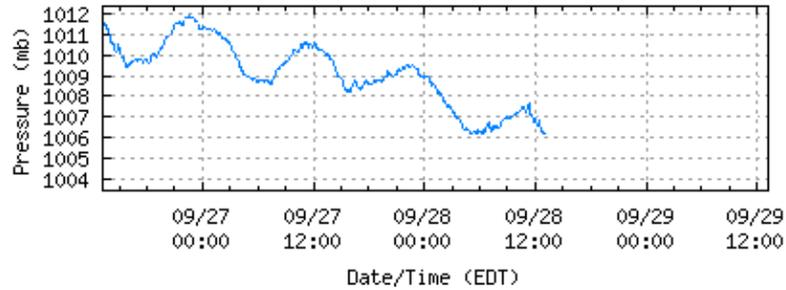
Naples, FL - [Return to List](#)



Last Observed Sample: 09/28/2010 13:00 (EDT)
Wind Speed: 8 knots Gusts: 11 knots Direction: 129° T

Naples, FL - [Return to List](#)

NOAA/NDS/CO-OPS
Barometric Pressure Plot
8725110 Naples, FL
from 09/26/2010 13:12 - 09/29/2010 13:12



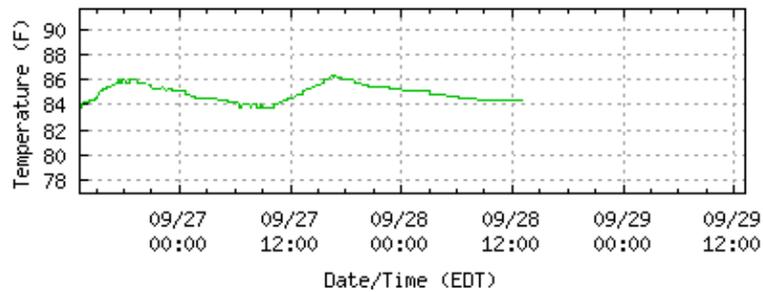
barometric pressure —

Last Observed Sample: 09/28/2010 13:00 (EDT)

Barometric Pressure: 1006.2 mb

Naples, FL - [Return to List](#)

NOAA/NDS/CO-OPS
Air/Water Temperature Plot
8725110 Naples, FL
from 09/26/2010 13:12 - 09/29/2010 13:12

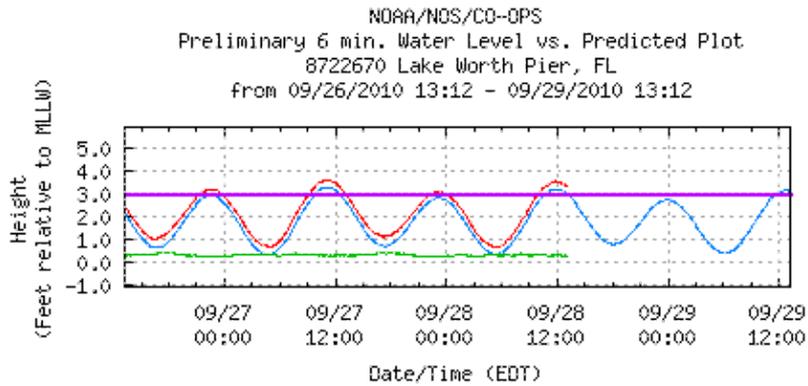


water temp. — air temp. —

Last Observed Sample: 09/26/2010 13:12 (EDT)

Water Temperature: 83.8° F Air Temperature: n/a

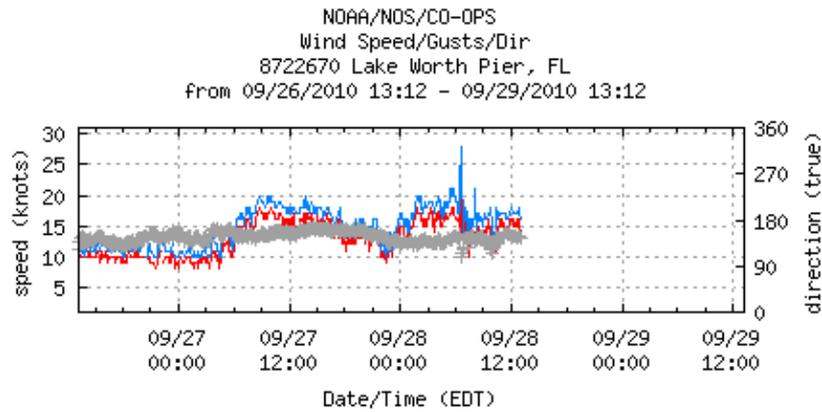
Lake Worth Pier, FL - [Return to List](#)



Predicted WL ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

Last Observed Sample: 09/28/2010 13:00 (EDT)
 Relative to **MLLW**: **Observed: 3.28 ft. Predicted: 2.99 ft. Residual: 0.29 ft.**
 Historical Maximum Water Level: Nov 23 1984, 1.88 ft. above **MHHW**

Lake Worth Pier, FL - [Return to List](#)

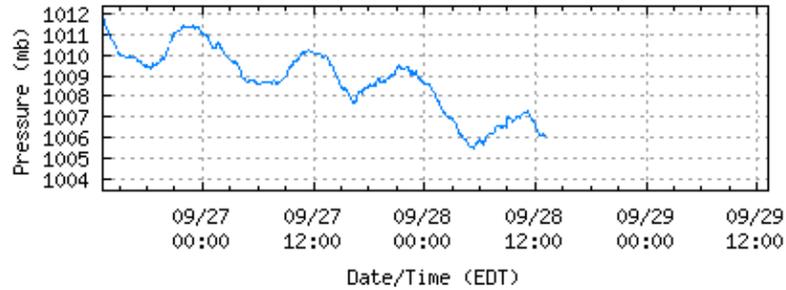


speed ——— gusts ——— direction +

Last Observed Sample: 09/28/2010 13:00 (EDT)
Wind Speed: 14 knots Gusts: 16 knots Direction: 146° T

Lake Worth Pier, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8722670 Lake Worth Pier, FL
from 09/26/2010 13:12 - 09/29/2010 13:12



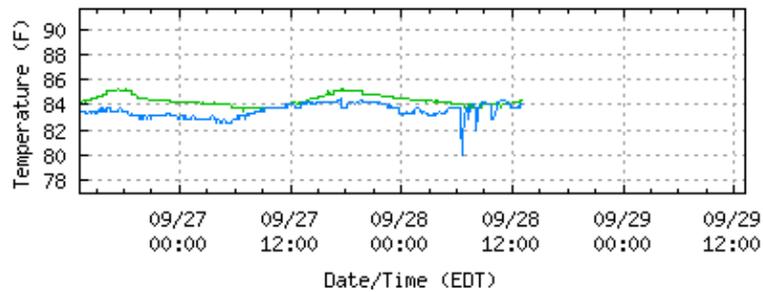
barometric pressure —

Last Observed Sample: 09/28/2010 13:00 (EDT)

Barometric Pressure: 1006.1 mb

Lake Worth Pier, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8722670 Lake Worth Pier, FL
from 09/26/2010 13:12 - 09/29/2010 13:12

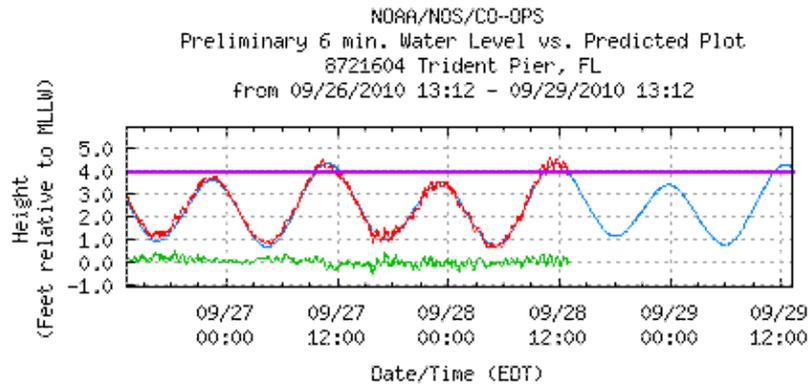


water temp. — air temp —

Last Observed Sample: 09/28/2010 13:00 (EDT)

Water Temperature: 84.4° F Air Temperature: 84.0° F

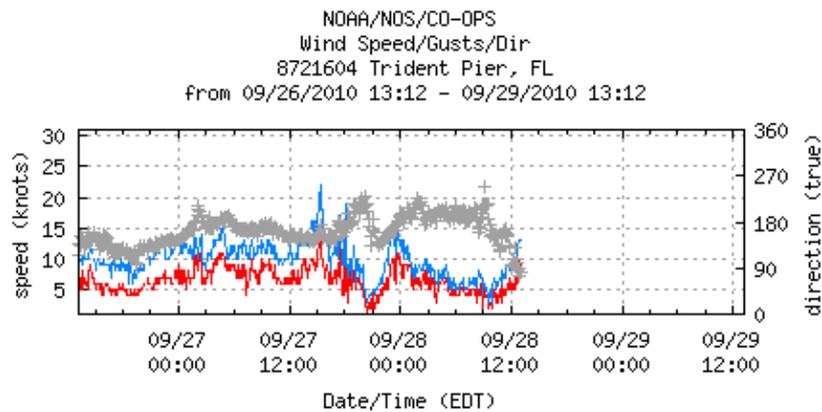
Trident Pier, FL - [Return to List](#)



Predicted WL ——— (Obs-Pred) ———
 Observed WL ——— MHHW ———

Last Observed Sample: 09/28/2010 13:00 (EDT)
 Relative to **MLLW**: **Observed: 3.95 ft. Predicted: 3.89 ft. Residual: 0.06 ft.**
 Historical Maximum Water Level: Sep 26 2004, 4.13 ft. above **MHHW**

Trident Pier, FL - [Return to List](#)

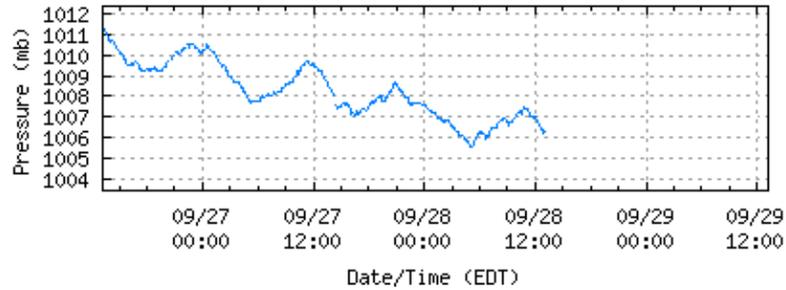


speed ——— gusts ——— direction +

Last Observed Sample: 09/28/2010 13:00 (EDT)
Wind Speed: 8 knots Gusts: 13 knots Direction: 083° T

Trident Pier, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Barometric Pressure Plot
8721604 Trident Pier, FL
from 09/26/2010 13:12 - 09/29/2010 13:12



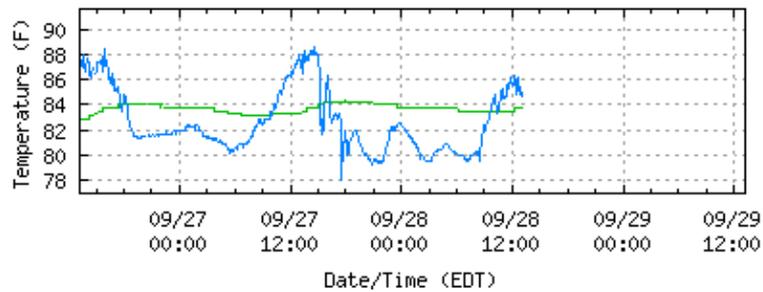
barometric pressure —

Last Observed Sample: 09/28/2010 13:00 (EDT)

Barometric Pressure: 1006.3 mb

Trident Pier, FL - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
8721604 Trident Pier, FL
from 09/26/2010 13:12 - 09/29/2010 13:12

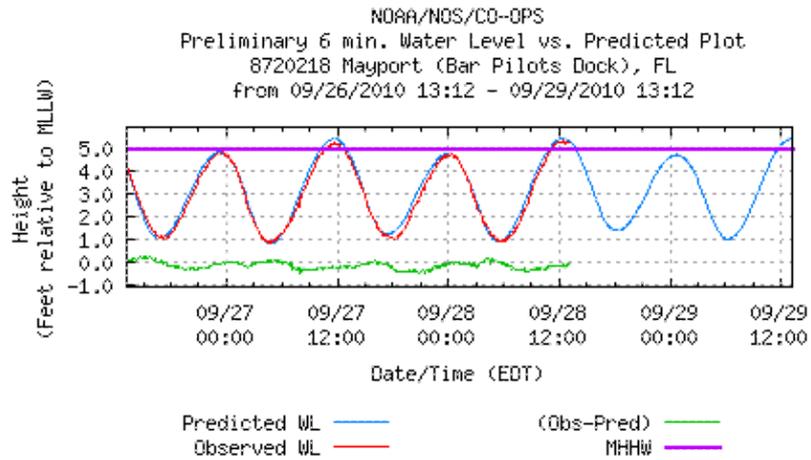


water temp. — air temp —

Last Observed Sample: 09/28/2010 13:00 (EDT)

Water Temperature: 83.7° F Air Temperature: 84.7° F

Mayport (Bar Pilots Dock), FL - [Return to List](#)



Last Observed Sample: 09/28/2010 13:00 (EDT)

Relative to **MLLW**: **Observed: 5.18 ft. Predicted: 5.28 ft. Residual: -0.10 ft.**

Historical Maximum Water Level: Sep 27 2004, 2.48 ft. above MHHW

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce